

LISTING OF CLAIMS

Claims 1-8 (Canceled)

Claim 9 (Currently Amended) ~~A computer-readable recording medium recording a program which makes a controller execute processing steps in order software for receiving and transmitting a radio signal, comprising: an application program including a plurality of analog hardware-independent instructions configured to receive and transmit the radio signal independently of analog hardware; and a software library to control analog hardware, wherein the application program is configured to enable a radio communication communicating apparatus having the controller for controlling a radio communication function, wherein the program makes the controller execute steps of:~~

compiling an application program having a command to communicate using a to
~~receive and transmit the radio signal; and~~

linking the compiled application program and a by referring to the software library
outside of to selectively convert the plurality of analog hardware-independent instructions to
~~control the analog hardware when the radio communication communicating apparatus~~
~~includes the analog hardware and the analog hardware-independent instructions can be~~
~~implemented on the analog hardware to produce an executable file which can be executed on~~
basic software which is executed on the radio communicating apparatus.

Claim 10 (Currently Amended): A radio communicating apparatus comprising:

~~a receiving and transmitting communicating device configured to receive and transmit~~
~~a execute radio signal[[]] communication, the communicating device having an analog~~
device to perform analog signal processing and a digital device to perform digital signal
processing an A/D converter configured to convert said radio signal which has been received

~~into an incoming digital signal and output the incoming digital signal; a D/A converter configured to convert an outgoing digital signal into said radio signal and output the radio signal; a digital signal processing device configured to perform a digital signal processing for an output of said A/D converter and for an input of said D/A converter;~~

an information storing unit configured to store function information representing a function, which both of the analog device and the digital device can execute, and configured to store selection rule information representing selection rule to select the analog device or the digital device to execute the function; and

~~a controller configured to control at least one of said receiving and transmitting select the analog device[[,]] said A/D converter, said D/A converter, and said or the digital signal processing device by referring to a library including a group of software for implementing a predetermined radio facility and executing predetermined software on basic software, wherein said receiving and transmitting device includes an analog device configured to perform an analog signal process and a digital device configured to perform a digital signal process, and said controller selects one of said analog device and said digital device and accomplishes a facility by preferentially selecting based on the selection rule to execute the function, which a communication command in an application program refers to, and configured to produce a software by compiling the application program so as to execute the function with either selected one of said the analog device and said digital device when the facility can be implemented by at least one of said analog device and said the digital device, and configured to execute the software.~~

Claim 11 (Currently Amended): An A radio communicating apparatus according to claim 10, wherein the selection by said the controller is executed using said the software by

referring to said a library holding a table of communication functions which can be realized with the analog device and the digital device.

Claims 12-15 (Canceled)

Claim 16 (New): A recording medium according to Claim 9, wherein the controller is composed of a computer;

the radio communicating apparatus includes analog hardware,

the application program is prepared so as to have a plurality of communication commands independently of the analog hardware;

the library is prepared dependent on the analog hardware, and

the program is the one to make the computer further execute step of processing to realize the command of the application program on the analog hardware by having the executable file executed on the basic software.

Claim 17 (New): A radio communicating apparatus, comprising:

a communicating device configured to execute radio communication;

an A/D converter configured to convert radio signal received in the radio communication into a first digital signal;

a D/A converter configured to convert a second digital signal into a radio signal to be transmitted in the radio communication;

a digital signal processing device configured to perform a digital signal processing for the first digital signal and the second digital signal; and

a controller configured to control at least one of the communicating device, the A/D converter, the D/A converter, and the digital signal processing device by compiling an

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application program, linking the compiled application program and a library outside of the radio communicating apparatus to produce and executable file, and executing the executable file on a basic software.